

SIMATIC IPC MD-57A 15.6" display Full HD (1920x 1080); Wi-Fi 6E Bluetooth V5.3 2x USB-C Gen 4; 3x USB-A Gen 3.2 x 2 1x USB-A Gen 2 2x RJ45 1GbE 1x HDMI 1.4b Intel® Core i7-12800HE processor (20 threads, 24 MB cache, up to 4.60 GHz) Intel® Iris® Xe graphics eligible 16 GB DDR5 SDRAM SO-DIMM 512 GB power supply cord with power plug: Italy; keyboard: QWERTY without slider Windows 11 IoT Enterprise (version 22H2) 64-bit STEP 7 & WinCC & Safety Combo: STEP 7 Professional Combo (V19 & 2021 SR2), WinCC Advanced V19 &, Safety Advanced Combo (V19 & Distributed V5.4 SP5) n/a

| General information                 |                                                                                                                                                                                                        |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design of the programming device    | Mobile computer                                                                                                                                                                                        |
| Display                             |                                                                                                                                                                                                        |
| Design of display                   | 15.6" full HD display in 16:9 format                                                                                                                                                                   |
| Screen diagonal                     | 15.6 in                                                                                                                                                                                                |
| Resolution (pixels)                 |                                                                                                                                                                                                        |
| • Horizontal image resolution       | 1 920 pixel                                                                                                                                                                                            |
| • Vertical image resolution         | 1 080 pixel                                                                                                                                                                                            |
| General features                    |                                                                                                                                                                                                        |
| • Non-reflecting                    | Yes                                                                                                                                                                                                    |
| • Luminance                         | 300 cd/m <sup>2</sup>                                                                                                                                                                                  |
| Backlighting                        |                                                                                                                                                                                                        |
| • Type of backlighting              | LED                                                                                                                                                                                                    |
| Control elements                    |                                                                                                                                                                                                        |
| Keyboard fonts                      |                                                                                                                                                                                                        |
| • Design                            | QWERTZ, QWERTY or AZERTY                                                                                                                                                                               |
| Touch operation                     |                                                                                                                                                                                                        |
| • Integrated touch pad              | Yes; Touch pad                                                                                                                                                                                         |
| Supply voltage                      |                                                                                                                                                                                                        |
| Design of the power supply          | External wide-range power supply, lithium ion battery                                                                                                                                                  |
| Rated value (DC)                    | 19 V                                                                                                                                                                                                   |
| permissible range, lower limit (AC) | 100 V; ±10 %, sinusoidal                                                                                                                                                                               |
| permissible range, upper limit (AC) | 240 V; ±10 %, sinusoidal                                                                                                                                                                               |
| Line frequency                      |                                                                                                                                                                                                        |
| • permissible range, lower limit    | 47 Hz                                                                                                                                                                                                  |
| • permissible range, upper limit    | 63 Hz                                                                                                                                                                                                  |
| Processor                           |                                                                                                                                                                                                        |
| Processor type                      | i7-12800HE (2.4 to 4.6 GHz; 14 cores (6 performance cores; 8 efficient cores); 24 MB Smart Cache) or i5-12600HE (2.5 to 4.5 GHz; 12 cores (4 performance cores; 8 efficient cores); 18 MB Smart Cache) |
| Chipset                             | integrated at CPU                                                                                                                                                                                      |
| Hyper-threading                     | Yes                                                                                                                                                                                                    |
| Turbo Boost Technology 2.0          | Yes                                                                                                                                                                                                    |
| Graphic                             |                                                                                                                                                                                                        |
| Graphics controller                 | Intel® Iris® X <sup>e</sup> Integrated Graphics Controller                                                                                                                                             |
| Drives                              |                                                                                                                                                                                                        |
| CD-RW                               | No                                                                                                                                                                                                     |
| DVD-ROM                             | No                                                                                                                                                                                                     |
| DVD-RW                              | No                                                                                                                                                                                                     |
| Hard disk                           | No                                                                                                                                                                                                     |
| SSD                                 | Yes; M.2                                                                                                                                                                                               |
| • Memory capacity                   | 512 Gbyte; Up to 2 TB SSD                                                                                                                                                                              |
| TPM Security Chip                   | Yes; 2.0_                                                                                                                                                                                              |
| Memory                              |                                                                                                                                                                                                        |
| Type of memory                      | DDR5 SO-DIMM                                                                                                                                                                                           |
| Work memory                         |                                                                                                                                                                                                        |
| • Number of slots                   | 2; max. 2x 32 GB                                                                                                                                                                                       |

|                                                                                       |                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Accumulator</b>                                                                    |                                                                                                                                                                                                  |
| Replaceable                                                                           | Yes; lithium polymer                                                                                                                                                                             |
| Capacity                                                                              | 8 A·h                                                                                                                                                                                            |
| <b>Interfaces</b>                                                                     |                                                                                                                                                                                                  |
| Number of interfaces PROFIBUS DP                                                      | 1; 1x PROFIBUS DP / MPI; 9-pin Sub-D socket; 9.6 kBaud to 12 MBaud                                                                                                                               |
| Number of RS 232 interfaces                                                           | 1; 1x COM                                                                                                                                                                                        |
| Number of USB interfaces                                                              | 6                                                                                                                                                                                                |
| • Type A                                                                              | 4; 2x USB-A 3.2 Gen1 and 2x USB-A 3.2 Gen2x1                                                                                                                                                     |
| • Type C                                                                              | 2; USB-C 4.0                                                                                                                                                                                     |
| Number of chip-card readers                                                           | 1; Smart Card Reader (ISO/IEC 7816)                                                                                                                                                              |
| MPI                                                                                   | Yes                                                                                                                                                                                              |
| Bluetooth radio standard                                                              | Yes; V5.3                                                                                                                                                                                        |
| Multimedia card/SD card slot                                                          | 2 in 1 (SDHC UHS-II, MMC)                                                                                                                                                                        |
| Card reader for SIMATIC memory cards                                                  | SIMATIC memory cards (for S7-300/400), SMC (for S7-1x00), SIMATIC micro memory card (for S7-300/C7/ET 200) - including programming interfaces                                                    |
| Universal Audio Jack                                                                  | No                                                                                                                                                                                               |
| <b>Video interfaces</b>                                                               |                                                                                                                                                                                                  |
| • analog video signal (VGA)                                                           | Yes; via adapter from HDMI to VGA                                                                                                                                                                |
| • DVI-I                                                                               | Yes; via adapter from HDMI to DVI                                                                                                                                                                |
| • DisplayPort                                                                         | Yes; via adapter from HDMI to DisplayPort                                                                                                                                                        |
| <b>Industrial Ethernet</b>                                                            |                                                                                                                                                                                                  |
| • Industrial Ethernet interface                                                       | 2x Ethernet (RJ45)                                                                                                                                                                               |
| — 100 Mbps                                                                            | Yes                                                                                                                                                                                              |
| — 1000 Mbps                                                                           | Yes; Gigabit Ethernet; 2x RJ45 with 2 independent MAC/IP addresses                                                                                                                               |
| • Wake on LAN                                                                         | Yes                                                                                                                                                                                              |
| • IAMT (Intel Active Management Technology)                                           | Yes                                                                                                                                                                                              |
| <b>WLAN</b>                                                                           |                                                                                                                                                                                                  |
| • Type                                                                                | IEEE802.a/b/g/n/ac R2/ax R2(PreStandard)                                                                                                                                                         |
| <b>Interrupts/diagnostics/status information</b>                                      |                                                                                                                                                                                                  |
| LED status display                                                                    | 4 status LEDs                                                                                                                                                                                    |
| <b>EMC</b>                                                                            |                                                                                                                                                                                                  |
| <b>Interference immunity against discharge of static electricity</b>                  |                                                                                                                                                                                                  |
| • Interference immunity against discharge of static electricity acc. to IEC 61000-4-2 | Yes; ±4 kV contact discharge acc. to IEC 61000-4-2, ESD; ±8 kV air discharge acc. to IEC 61000-4-2, ESD                                                                                          |
| <b>Interference immunity to cable-borne interference</b>                              |                                                                                                                                                                                                  |
| • Interference immunity on supply cables                                              | ±2 kV (according to IEC 61000-4-4, burst); ±1 kV (according to IEC 61000-4-5, surge pulse/line to line); ±2 kV (according to IEC 61000-4-5, surge pulse/line to ground)                          |
| • Interference immunity on signal cables                                              | ±1 kV (according to IEC 61000-4-4, burst, length < 30 m); ±2 kV (according to IEC 61000-4-4, burst, length > 30 m); ±2 kV (according to IEC 61000-4-5, surge sym./line to ground, length > 30 m) |
| <b>Degree and class of protection</b>                                                 |                                                                                                                                                                                                  |
| IP degree of protection                                                               | IP30                                                                                                                                                                                             |
| <b>Standards, approvals, certificates</b>                                             |                                                                                                                                                                                                  |
| CE mark                                                                               | Yes                                                                                                                                                                                              |
| CSA approval                                                                          | Yes                                                                                                                                                                                              |
| UL approval                                                                           | Yes                                                                                                                                                                                              |
| DIN/ISO 9001                                                                          | Yes                                                                                                                                                                                              |
| <b>Ambient conditions</b>                                                             |                                                                                                                                                                                                  |
| <b>Ambient temperature during operation</b>                                           |                                                                                                                                                                                                  |
| • min.                                                                                | 5 °C; Max. 10 °C/h (no condensation)                                                                                                                                                             |
| • max.                                                                                | 40 °C; Max. 10 °C/h (no condensation)                                                                                                                                                            |
| <b>Ambient temperature during storage/transportation</b>                              |                                                                                                                                                                                                  |
| • min.                                                                                | -20 °C; Max. 20 °C/h (no condensation)                                                                                                                                                           |
| • max.                                                                                | 60 °C; Max. 20 °C/h (no condensation)                                                                                                                                                            |
| <b>Relative humidity</b>                                                              |                                                                                                                                                                                                  |
| • Operation, min.                                                                     | 5 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14                                                                                            |
| • Operation, max.                                                                     | 85 %; At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14                                                                                           |
| <b>Vibrations</b>                                                                     |                                                                                                                                                                                                  |
| • Operation, tested according to IEC 60068-2-6                                        | Yes                                                                                                                                                                                              |
| <b>Shock testing</b>                                                                  |                                                                                                                                                                                                  |

|                                       |                                                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------|
| • tested according to IEC 60068-2-27  | Yes                                                                                                   |
| • tested according to IEC 60068-2-29  | No                                                                                                    |
| <b>Operating systems</b>              |                                                                                                       |
| Local language of operating system    | Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese) |
| <b>pre-installed operating system</b> |                                                                                                       |
| • Windows 11                          | Yes; Windows 11 IoT Enterprise (version 22H2)                                                         |
| <b>Software</b>                       |                                                                                                       |
| <b>Preinstalled</b>                   |                                                                                                       |
| • STEP 7 Professional (TIA Portal)    | Yes; software version: V19                                                                            |
| • STEP 7                              | Yes; Professional 2021 SR2                                                                            |
| • WinCC flexible Advanced 2008        | No                                                                                                    |
| • WinCC Advanced (TIA Portal)         | Yes; software version: V19                                                                            |
| • STEP 5                              | No                                                                                                    |
| <b>Mechanics/material</b>             |                                                                                                       |
| Material of housing                   | metal                                                                                                 |
| Handle                                | Yes; retractable                                                                                      |
| Socket for Kensington lock            | Yes                                                                                                   |
| rubber corner guards                  | Yes                                                                                                   |
| <b>Dimensions</b>                     |                                                                                                       |
| Width                                 | 386 mm                                                                                                |
| Height                                | 41 mm                                                                                                 |
| Depth                                 | 281 mm                                                                                                |
| <b>Weights</b>                        |                                                                                                       |
| Weight, approx.                       | 2.8 kg; incl. rechargeable battery                                                                    |
| <b>Scope of supply</b>                |                                                                                                       |
| Accumulator                           | Yes                                                                                                   |
| Power supply                          | Yes                                                                                                   |
| Backpack                              | Yes                                                                                                   |
| SIMATIC Software                      | Yes                                                                                                   |
| Recovery media                        | Yes; Restore & Recovery                                                                               |
| <b>Other</b>                          |                                                                                                       |
| free hotline                          | Yes                                                                                                   |
| Note:                                 | Made in Germany: development and production in Germany                                                |
| <b>last modified:</b>                 | 8/28/2024          |